

# TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

7

Application Number

10/516,629

Filing Date

December 1, 2004

First Named Inventor

Detlef Muller-Schulte

Art Unit

1641

Examiner Name

Unsu Jung

Attorney Docket Number

RO0940US (#90568)

## ENCLOSURES (Check all that apply)



Fee Transmittal Form



Fee Attached



Amendment/Reply



After Final



Affidavits/declaration(s)



Extension of Time Request



Express Abandonment Request



Information Disclosure Statement



Certified Copy of Priority Document(s)

Reply to Missing Parts/  
Incomplete ApplicationReply to Missing Parts  
under 37 CFR 1.52 or 1.53

Drawing(s)



Licensing-related Papers



Petition

Petition to Convert to a  
Provisional Application

Power of Attorney, Revocation



Change of Correspondence Address



Terminal Disclaimer



Request for Refund



CD, Number of CD(s) \_\_\_\_\_



Landscape Table on CD



After Allowance Communication to TC

Appeal Communication to Board  
of Appeals and InterferencesAppeal Communication to TC  
(Appeal Notice, Brief, Reply Brief)

Proprietary Information



Status Letter

Other Enclosure(s) (please identify  
below):

return postcard receipt

Remarks

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name

D. Peter Hochberg Co., L.P.A.

Signature

Printed name

D. Peter Hochberg

Date

September 21, 2005

Reg. No.

24,603

## CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature

Typed or printed name

Sean Mellino

Date

Sept. 21, 2005

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Effective on 12/08/2004.

Fees pursuant to the Consolidated Appropriations Act, 2005 (P.L. 109-171, R. 4818).

**FEE TRANSMITTAL  
For FY 2005**☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 0.00

**Complete if Known**

Application Number	10/516,629
Filing Date	December 1, 2004
First Named Inventor	Detlef Muller-Schulte
Examiner Name	Unsu Jung
Art Unit	1641
Attorney Docket No.	RO0940US (#90568)

**METHOD OF PAYMENT (check all that apply)**
☐ Check ☐ Credit Card ☐ Money Order ☒ None ☐ Other (please identify): \_\_\_\_\_

☒ Deposit Account Deposit Account Number: 08-2441 Deposit Account Name: D. Peter Hochberg Co., L.P.A.

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee

☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☐ Credit any overpayments

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**FEE CALCULATION****1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

**2. EXCESS CLAIM FEES**

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180
<b>Total Claims</b>	<b>Extra Claims</b>	<b>Fee (\$)</b>
- 20 or HP =	x	=
HP = highest number of total claims paid for, if greater than 20.		
<b>Indep. Claims</b>	<b>Extra Claims</b>	<b>Fee (\$)</b>
- 3 or HP =	x	=
HP = highest number of independent claims paid for, if greater than 3.		

Multiple Dependent Claims	Fee (\$)	Fee Paid (\$)

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
- 100 =	/ 50 =	(round up to a whole number) x	125.00	0.00

**4. OTHER FEE(S)**

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge):

Fees Paid (\$)

**SUBMITTED BY**

Signature		Registration No. (Attorney/Agent)	24,603	Telephone	216-771-3800
Name (Print/Type)	D. Peter Hochberg	Date	September 21, 2005		

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Date: September 21, 2005

Sean Mellino  
Sean Mellino

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant : Detlef Müller-Schulte  
Serial No. : 10/516,629 (Conf. No. 4567)  
Filing Date : December 1, 2004  
Examiner : Unsu Jung  
Group Art Unit : 1641  
Title : THERMOSENSITIVE POLYMER CARRIER  
WITH CHANGEABLE PHYSICAL STRUCTURE  
FOR BIOCHEMICAL ANALYSIS, DIAGNOSTICS  
AND THERAPY  
Attorney File : RO0940US (#90568)

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

**Reply to Office Action Issued August 23, 2005**

Dear Sir:

Claims 1-65 are pending in the instant application. The Examiner has concluded that restriction to one of the following five groups is necessary:

- I. Claims 1-24, drawn to thermosensitive polymers containing at least one of magnetic or metallic colloids.

- II. Claims 25-45 and 48-62, drawn to a process for the production of thermosensitive polymers.
- III. Claims 43, 46, 63 and 64, drawn to a process for the release of active agents from active-agent containing particles of thermosensitive polymers using a magnetic alternating field for magnetic induction.
- IV. Claims 44 and 47, drawn to a process for changing a physical structure of thermosensitive polymers.
- V. Claim 65, drawn to a use of thermosensitive polymers as a contrast-intensifying media in NMR diagnostics.

The Examiner is requiring that the applicant elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable.

Applicant respectfully objects to the conclusion of the Examiner, with traverse. It is the applicant's opinion that all the groups include a single inventive idea. More particularly, independent claim 1 recites a thermosensitive polymer containing at least one magnetic or metallic colloid, independent claim 25 recites a process for the production of thermosensitive polymers in accordance with claim 1 and independent claim 26 recites a process for the production of thermosensitive polymers according to claim 1 and comprising a variety of steps. Independent claim 43 recites a process for the release of active agents from active agent-containing particles of thermosensitive polymers according to claim 1 or produced by a process according to claim 25, independent claim 44 relates to a process for changing the physical structure of

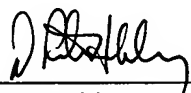
thermosensitive polymers involving introducing into a magnetic alternating field, and independent claim 45 is directed to the use of thermosensitive polymers containing colloids according to claim 1 or produced by a process in a variety of ways according to claim 25. Lastly, independent claim 63 refers to a process for the release of active agents from active-agent containing particles according to claim 1 or having been produced by a process according to claim 25 and independent claim 65 recites the use of thermosensitive polymers containing at least one magnetic or metallic colloid according to claim 1 or produced by a process according to claim 25. Each of the claims includes the single inventive idea of the thermosensitive polymers containing at least one magnetic or metallic colloids according to claim 1 or the process for the production of thermosensitive polymers according to claim 1, as set forth in claim 25.

However, the applicant wishes to elect Group II for prosecution on the merits. According to the Examiner, claims 25-45 and 48-62 are readable thereon. Prosecution on the merits thereof is respectfully requested.

The Examiner is invited to call the undersigned if there are any remaining issues to be discussed which could expedite the prosecution of the present application.

Respectfully submitted,

Date: September 21, 2005

By:   
D. Peter Hochberg  
Reg. No. 24,603

D. Peter Hochberg Co., L.P.A.  
1940 E. 6<sup>th</sup> St. - 6<sup>th</sup> Floor  
Cleveland, OH 44114-2294  
(216) 771-3800